# Work Order ID 113652

*February-24-14 10:00:42 AM*

*113652*



**Item ID:** D3110-1 **Accept** *N900040100* **Setup Start** *NS1*

**Revision ID:** **Stop** *NS2*

**Item Name:** Escutcheon

**Start Date:** 2/28/14 **Start Qty:** 2.00 *2*

**Required Date:** 2/28/14 **Req'd Qty:** 2.00 *2*

**Reference:**

**Cust Item ID:**

**Customer:**

**Approvals:** **Process Plan:** MLS **Date:** 14-02-25 **Tooling:** _____ **Date:** _____ **Run Start** *NR1*

**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop** *NR2*

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| **Draw Nbr** | **Revision Nbr** | | | | | | | | |
| D3110 | Rev C | | | | | | | | |
| 100 | | 0.00 | | | | | | | |
| *100* | BAND SAW | | | | | 2 | 0 | | MH 14/04/04 |
| Bandsaw | **Memo** | 0.00 | | | | | | | |
| Jeaspa Bandsaw | Cut blanks: 6.400" x 1.25" x .25" thick<br>Note: 1 blank makes 2 parts | | | | | | | | |
| 110 | | 0.00 | | | | | | | |
| *110* | HAAS CNC VERTICAL MACHINING #1 | | | | | 2 | 0 | | JFC 2014-04-05 |
| HAAS 1 | **Memo** | 0.00 | | | | | | | |
| HAAS CNC vertical machine #1 | Machine as per folio FA215 | | | | | | | | |
| 120 | QC2- Inspect parts off machine FAI/FAIB | 0.00 | | | | | | | |
| *120* | | | | | | 2 | 0 | | JFC 2014-04-05 |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

Skid-tube ☐ Crosstube ☐ Water Jet ☐ Engineering ☐
Machining ☐ Small Fab ☐ Prod. Eng. Coor. ☐ Quality ☐
Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐
Large Fab ☐ Composite ☐ Supplier ☐

| Root Cause | | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---|---|---|---|---|---|---|---|---|---|---|
| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

**Landing Gear**

☐ Bending
☐ Centre Not Concentric
☐ Cracks
☐ Crimp/Kink/Ripple/Wave
☐ Cuffs
☐ Crushing
☐ Heat Treat
☐ Inspection Strip in Tube
☐ Marks/Chatter
☐ Turning Sequence
☐ Wave/Twist in Tube

**General**

☐ Bend
☐ BOM/Route
☐ Broken/Damage/Defect
☐ Burrs
☐ Contamination
☐ Countersink
☐ Cut Too Short
☐ Drawing
☐ Drill Holes
☐ Finish
☐ Fit/Function
☐ Folio/Program
☐ Grain
☐ Hardware
☐ Inspection Incomplete/Unqualified
☐ Instructions Incomplete/Unclear
☐ Misaligned/off center
☐ Mislabeled
☐ Misread
☐ Off-set
☐ Out of Calibration
☐ Out of Sequence
☐ Outside Dimensions
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge
☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other

_____
_____
_____

# Work Order ID 113652

*February-24-14 10:00:42 AM*

*113652*

**Item ID:** D3110-1 **Accept** *N900040100* **Setup Start** *NS1*

**Revision ID:** **Stop** *NS2*

**Item Name:** Escutcheon

**Start Date:** 2/28/14 **Start Qty:** 2.00 *2*

**Required Date:** 2/28/14 **Req'd Qty:** 2.00 *2*

**Reference:**

**Cust Item ID:**

**Customer:**

**Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

**Run Start** *NR1*

**Stop** *NR2*

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| 130 | QC8- Inspect parts - second check | 0.00 | | | | 2 | | | DAS 40 9-89 14/04/06 |
| *130* | | | | | | | | | |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |
| 140 | | 0.00 | | | | | | | |
| *140* | Small Fab | | | | | 2x | DAS 28 9-89 | 14/09/19 | |
| Small Fab | **Memo** | 0.00 | | | | | | | |
| Small Fab | Tumble or Deburr Polish to a high lustre! | | | | | | | | |
| 150 | Identify as per dwg & Stock Location: SS017 | 0.00 | | | | | | | |
| *150* | | | | | | 2x | | Sp14-9-19 | |
| Packaging | **Memo** | 0.00 | | | | | | | |
| Packaging | | | | | | | | | |

DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

Skid-tube ☐ Crosstube ☐ Water Jet ☐ Engineering ☐
Machining ☐ Small Fab ☐ Prod. Eng. Coor. ☐ Quality ☐
Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐
Large Fab ☐ Composite ☐ Supplier ☐

| Root Cause | | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---|---|---|---|---|---|---|---|---|---|---|
| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

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☐ Crushing
☐ Heat Treat
☐ Inspection Strip in Tube
☐ Marks/Chatter
☐ Turning Sequence
☐ Wave/Twist in Tube

**General**

☐ Bend
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☐ Broken/Damage/Defect
☐ Burrs
☐ Contamination
☐ Countersink
☐ Cut Too Short
☐ Drawing
☐ Drill Holes
☐ Finish
☐ Fit/Function

☐ Folio/Program
☐ Grain
☐ Hardware
☐ Inspection Incomplete/Unqualified
☐ Instructions Incomplete/Unclear
☐ Misaligned/off center
☐ Mislabeled
☐ Misread
☐ Off-set
☐ Out of Calibration
☐ Out of Sequence

☐ Outside Dimensions
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge

☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled

☐ Other

_____
_____
_____

**Item ID:** D3110-1
**Revision ID:**
**Item Name:** Escutcheon
**Start Date:** 2/28/14 **Start Qty:** 2.00 *2*
**Required Date:** 2/28/14 **Req'd Qty:** 2.00 *2*
**Reference:**

**Accept** *N900040100*

**Cust Item ID:**
**Customer:**

**Setup Start** *NS1*
**Stop** *NS2*

**Run Start** *NR1*
**Stop** *NR2*

**Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____
**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| 160 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| *160* | | | | | | MCJ | | 14-09-19 | |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

MCJ 14-09-19

DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

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| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

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☐ Wrong Stock Pulled

☐ Other

_____
_____
_____

# Picklist Print

*February-24-14 10:00:41 AM*



**Work Order ID:** 113652

*113652*

**Parent Item:** D3110-1

*D3110-1*

**Parent Item Name:** Escutcheon

**Start Date:** 2/28/14 **Required Date:** 2/28/14

**Start Qty:** 2.00 **Required Qty:** 2.00

**Comments:** IPP B01.04.30Added Rev.A1NG

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M6061T6B0.250X01.250 | | Purchased | No | | | 100 | f | 53.0000 | 0.34 | 1 | | | |

*M6061T6B0.250X01.250*

**

6061-T6 Bar .250 X 1.25

| Location | Loc Qty | Loc Code |
|---|---|---|
| MAT049 | 53 | |
| 109058 | 20 | |
| 109140 | 18 | |
| 10956 | 15 | |

1. MH 14/04/04

DQA: _____ Date: _____

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| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

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☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled

☐ Other

_____
_____
_____

| DART AEROSPACE LTD | Work Order: | 113652 |
|---|---|---|
| | | |
| Description: | Part Number: | D3110-1 |
| | | |
| Inspection Dwg: D3110 Rev: C | | Page 1 of 1 |

## FIRST ARTICLE INSPECTION CHECKLIST

| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|---|---|---|---|---|---|---|
| 1.220 | +/- 0.010 | 1.220 | ✓ | | Caliper | JFC-01 |
| 0.218 | +/- 0.010 | 0.222 | ✓ | | " | |
| 0.630 | +0.005/-0.001 | 0.630 | ✓ | | Caliper+P/N | JFC-01 + Shop |
| 1.062 | +/- 0.010 | 1.060 | ✓ | | Caliper | JFC-01 |
| 2.124 | +/- 0.010 | 2.124 | ✓ | | " | " |
| 1.220 | +/- 0.010 | 1.220 | ✓ | | Rad G | Shop |
| R0.38 | +/- 0.03 | R0.375 | ✓ | | Calipers | JFC-01 |
| 0.170 | +0.005/-0.001 | 0.174 | ✓ | | Caliper+P/N | JFC-01 + Shop |
| 0.320x100° | +/- 0.010 | 0.318x100° | ✓ | | Caliper | JFC-01 |
| 0.12 | +/- 0.030 | 0.124 | ✓ | | " | " |
| 0.025 | +/- 0.010 | 0.020 | ✓ | | depth G | JFC-01 |
| 2.878 | +/- 0.010 | 2.880 | ✓ | | Caliper | JFC-01 |
| R0.13 | +/- 0.03 | R0.125 | ✓ | | Rad G | Shop |
| 60° | +/- 1/2° | 60° | ✓ | | Ang G | Shop |
| | | | | | | |
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| | | | | | | |

| Measured by: | JFC |
|---|---|
| Date: | 2014-04-05 |

| Audited by: | DAS 40 9-89 |
|---|---|
| Date: | 14/04/06 |

| Preliminary Approval: | |
|---|---|
| Date: | |

| Rev | Date | Change | Revised by | Approved |
|---|---|---|---|---|
| E | 10.04.14 | Added preliminary approval | KJ | |

10.04.15

DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

Skid-tube ☐ Crosstube ☐ Water Jet ☐ Engineering ☐
Machining ☐ Small Fab ☐ Prod. Eng. Coor. ☐ Quality ☐
Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐
Large Fab ☐ Composite ☐ Supplier ☐

| Root Cause | | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---|---|---|---|---|---|---|---|---|---|---|
| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

**Landing Gear**

☐ Bending
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**General**

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☐ Set-up
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☐ Wrong Stock Pulled

☐ Other

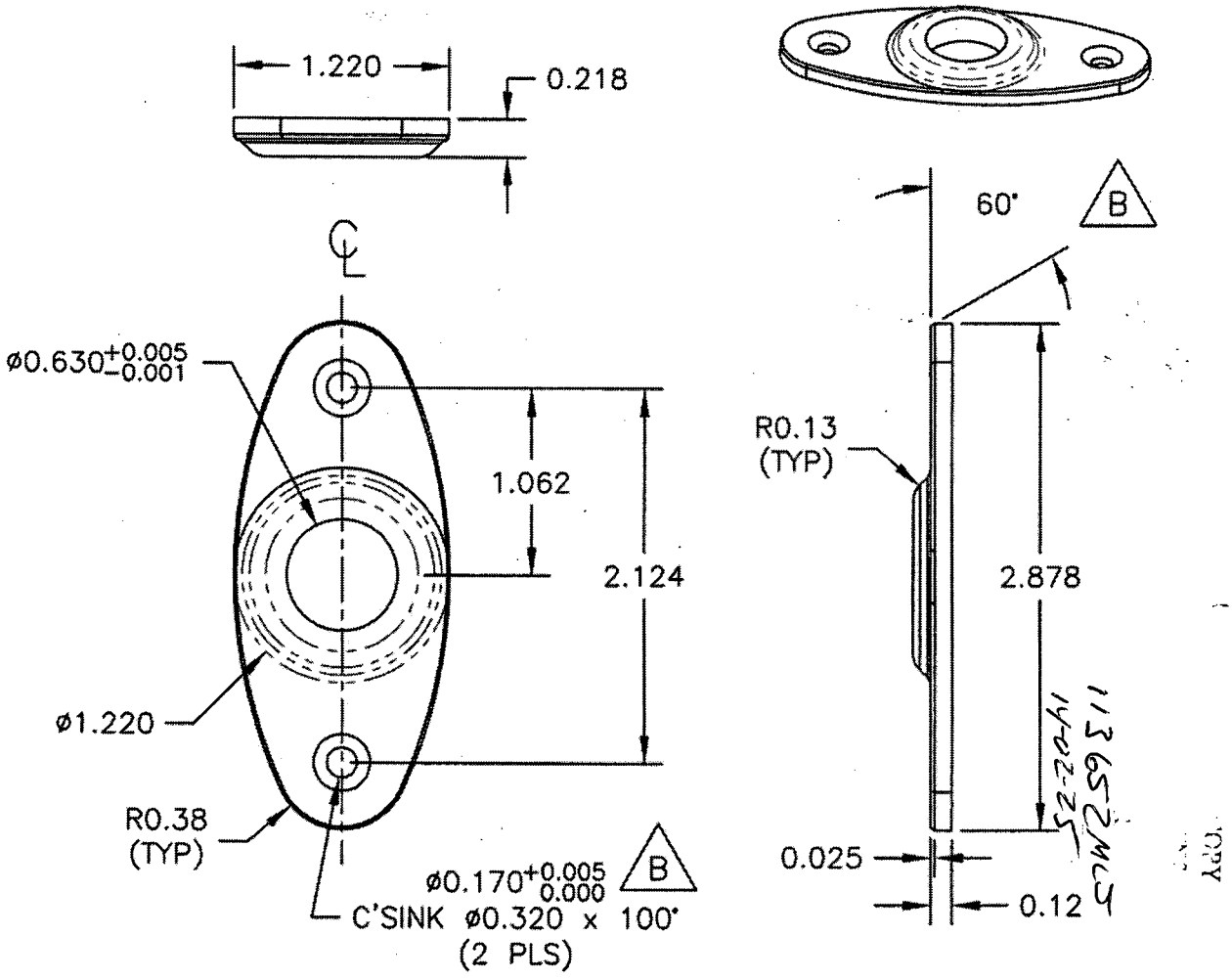
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DART

| DESIGN | DRAWN BY | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA | |
|---|---|---|---|
| RF | RF | | |
| CHECKED | APPROVED | DRAWING NO. D3110 | REV. C<br>SHEET 1 OF 3 |
| DATE 05.12.14 | | TITLE HANDLE | SCALE 1:1 |

| | | |
|---|---|---|
| A | 02.04.11 | NEW ISSUE |
| B | 04.10.18 | ADD PART MARKING, TOLERANCES |
| C | 05.12.14 | REVISE D3110-5 |

**RELEASED**
05.12.15




## D3110-1 ESCUTCHEON

NOTES:
1) MATERIAL: 6061-T6 BAR (QQ-A-200/8 OR QQ-A-225/8) 0.250 THICK (M6061T6B)
2) FINISH: POLISHED
3) BREAK ALL UNMARKED SHARP EDGES 0.010 TO 0.020
4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
5) ALL DIMENSIONS ARE INCHES
6) REPLACES ADAMS RITE P/N AR75
7) IDENTIFY WITH DART P/N USING FINE POINT PERMANENT INK MARKER

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DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

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| Design | ☐ | | | | | | | | | |
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| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
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| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

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☐ Cut Too Short
☐ Drawing
☐ Drill Holes
☐ Finish
☐ Fit/Function

☐ Folio/Program
☐ Grain
☐ Hardware
☐ Inspection Incomplete/Unqualified
☐ Instructions Incomplete/Unclear
☐ Misaligned/off center
☐ Mislabeled
☐ Misread
☐ Off-set
☐ Out of Calibration
☐ Out of Sequence

☐ Outside Dimensions
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge

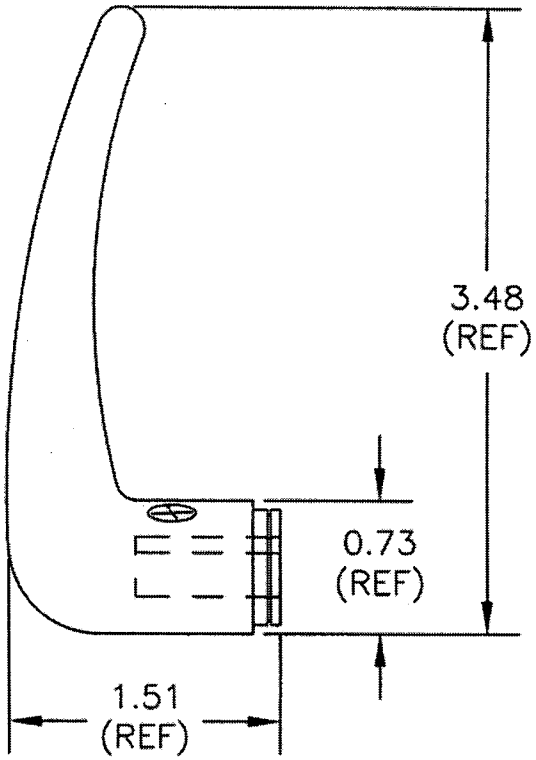
☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled

☐ Other

_____
_____
_____

| DESIGN | DRAWN BY | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA | |
|---|---|---|---|
| RF | RF | | |
| CHECKED | APPROVED | DRAWING NO. | REV. C |
| | | D3110 | SHEET 2 OF 3 |
| DATE | | TITLE | SCALE |
| 05.12.14 | | HANDLE | 1:1 |

RELEASED
05.12.15




## D3110-3 HANDLE

NOTES:
1) POSSIBLE SUPPLIERS: ADAMS RITE P/N AR34
BELL P/N 70-027-1
PREMIER P/N 034-23002-01
2) IDENTIFY WITH DART P/N USING FINE POINT PERMANENT INK MARKER

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DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

Skid-tube ☐ Crosstube ☐ Water Jet ☐ Engineering ☐
Machining ☐ Small Fab ☐ Prod. Eng. Coor. ☐ Quality ☐
Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐
Large Fab ☐ Composite ☐ Supplier ☐

| Root Cause | | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---|---|---|---|---|---|---|---|---|---|---|
| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

**Landing Gear**

☐ Bending
☐ Centre Not Concentric
☐ Cracks
☐ Crimp/Kink/Ripple/Wave
☐ Cuffs
☐ Crushing
☐ Heat Treat
☐ Inspection Strip in Tube
☐ Marks/Chatter
☐ Turning Sequence
☐ Wave/Twist in Tube

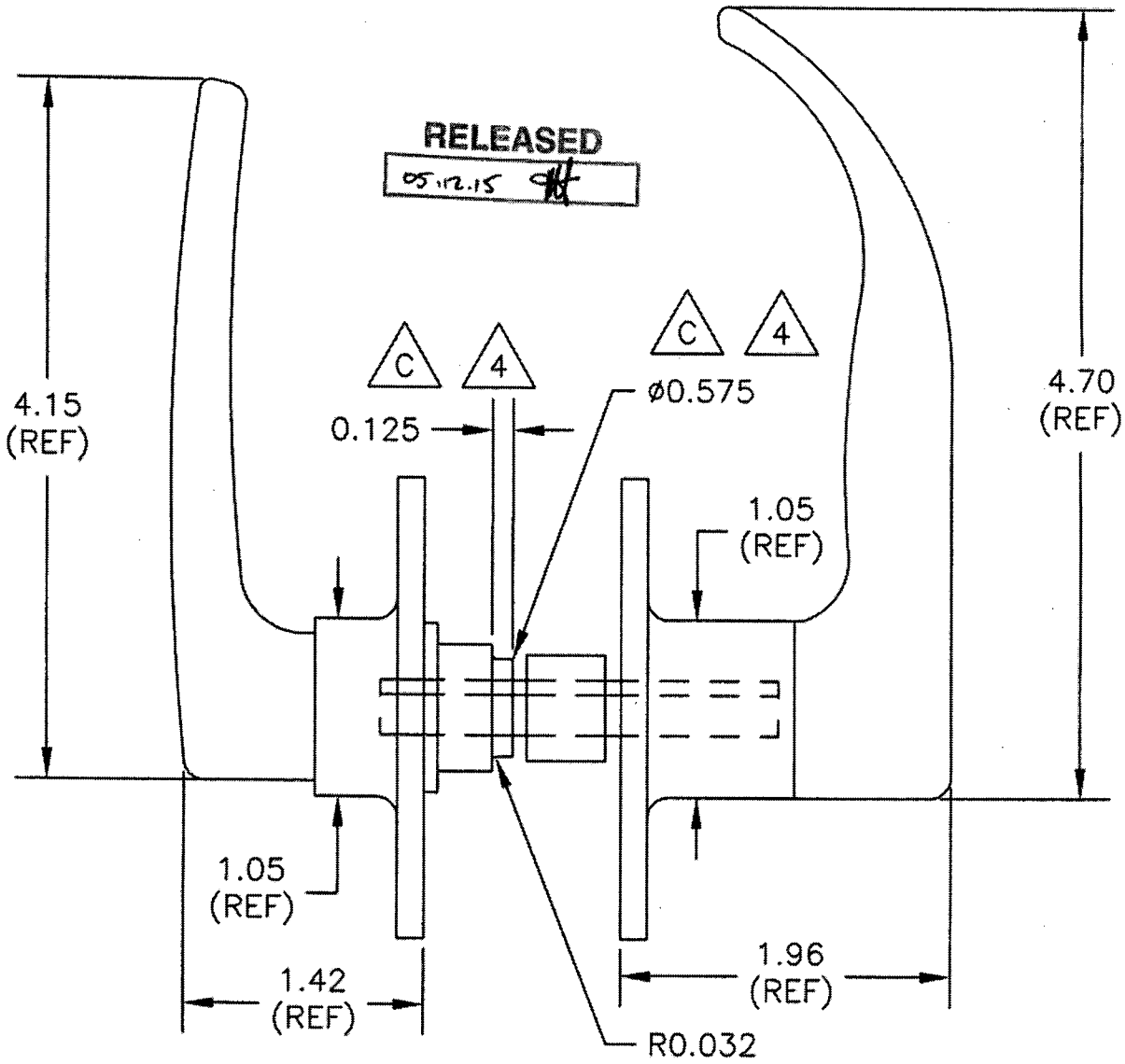
**General**

☐ Bend
☐ BOM/Route
☐ Broken/Damage/Defect
☐ Burrs
☐ Contamination
☐ Countersink
☐ Cut Too Short
☐ Drawing
☐ Drill Holes
☐ Finish
☐ Fit/Function
☐ Folio/Program
☐ Grain
☐ Hardware
☐ Inspection Incomplete/Unqualified
☐ Instructions Incomplete/Unclear
☐ Misaligned/off center
☐ Mislabeled
☐ Misread
☐ Off-set
☐ Out of Calibration
☐ Out of Sequence
☐ Outside Dimensions
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge
☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other

_____
_____
_____

| DESIGN | DRAWN BY | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA | |
|---|---|---|---|
| RF | RF | | |
| CHECKED | APPROVED | DRAWING NO. D3110 | REV. C<br>SHEET 3 OF 3 |
| DATE<br>05.12.14 | | TITLE<br>HANDLE | SCALE<br>1:1 |

# SPECIFICATION CONTROL DRAWING




## D3110-5 HANDLE

NOTES:

1) POSSIBLE SUPPLIER: ADAMS RITE P/N 4298
2) IDENTIFY WITH PART P/N USING FINE POINT PERMANENT INK MARKER
3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
4) MODIFY STEM AS SHOWN
5) BREAK ALL SHARP EDGES 0.005 TO 0.010

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DQA: _____ Date: _____

# WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No. _____

**DISPOSITION**

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

**AGAINST DEPARTMENT/PROCESS**

Skid-tube ☐ Crosstube ☐ Water Jet ☐ Engineering ☐
Machining ☐ Small Fab ☐ Prod. Eng. Coor. ☐ Quality ☐
Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐
Large Fab ☐ Composite ☐ Supplier ☐

| Root Cause | | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---|---|---|---|---|---|---|---|---|---|---|
| Design | ☐ | | | | | | | | | |
| Doc/Data | ☐ | | | | | | | | | |
| Equip/Tooling | ☐ | | | | | | | | | |
| Handling/Pre | ☐ | | | | | | | | | |
| Material | ☐ | | | | | | | | | |
| Operator | ☐ | | | | | | | | | |
| Offset/Setup | ☐ | | | | | | | | | |
| Process | ☐ | | | | | | | | | |
| Supplier | ☐ | | | | | | | | | |
| Training | ☐ | | | | | | | | | |
| Transport | ☐ | | | | | | | | | |
| Unapproved | ☐ | | | | | | | | | |

**FAULT CATEGORY**

**Landing Gear**

☐ Bending
☐ Centre Not Concentric
☐ Cracks
☐ Crimp/Kink/Ripple/Wave
☐ Cuffs
☐ Crushing
☐ Heat Treat
☐ Inspection Strip in Tube
☐ Marks/Chatter
☐ Turning Sequence
☐ Wave/Twist in Tube

**General**

☐ Bend
☐ BOM/Route
☐ Broken/Damage/Defect
☐ Burrs
☐ Contamination
☐ Countersink
☐ Cut Too Short
☐ Drawing
☐ Drill Holes
☐ Finish
☐ Fit/Function
☐ Folio/Program
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☐ Power Loss/Surge
☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other

_____
_____
_____